



## KOREAN PATENT ABSTRACTS

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(54) METHOD FOR ASSIGNING DIFFERENT RANGING CODE SETS BETWEEN CELL AND NEIGHBORING CELL IN ORTHOGONAL FREQUENCY DIVISION MULTIPLE ACCESS WIRELESS COMMUNICATION SYSTEM

(57) Abstract:

PURPOSE: A method for assigning different ranging code sets between a cell and a neighboring cell in an OFDMA(Orthogonal Frequency Division Multiple Access) wireless communication system is provided to differentiate ranging codes used every neighboring cell, in order to easily know whether ranging signals belong to terminals included in a self cell, thereby preventing deterioration of a ranging success probability. CONSTITUTION: A base station transmits ranging information to all mobile terminals of a cell(310). The base station receives ranging signals from the mobile terminals corresponding to the ranging information through assigned sub channels(312). The base station decides whether ranging processes in accordance with the ranging signals are proper to ranging standards(314). If so, the base station decides whether ranging codes proper to the ranging standards exist within a self ranging code set(316). If so, the base station transmits ranging response signals to the mobile terminals(318). The base station decides whether time for transmitting system information comes(320). If not, the base station completes the process.



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